

IN THE SPECIFICATION

Please replace the paragraph beginning on page 12, line 3, with the following amended paragraph:

~~The FIGURE~~FIG. 1 schematically shows an examination object in a gradient field with a radiation and detector unit.

Please replace the paragraph beginning on page 12, line 5, with the following amended paragraph:

FIG. 1 shows an illustrative test arrangement of an examination object in a gradient field with a radiation and detector unit. In

this test arrangement, the examination object 1 is located in a gradient field 2 which around the field-free point 6 has an area 4 (the first part-area) the field strength of which is so low that the magnetization of magnetic particles located there is not saturated, said area 4 being shown in dashed line. The magnetic particles present in the examination object 1 are not shown.

Outside the weak-field area 4 the magnetic particles are in a state of saturation (second part-area 8). The size of the part-area 4, which determines the spatial resolution of the device, depends on the one hand on the strength of the gradient magnetic field and on

Amendment in Reply to Non-Final Office Action of October 9, 2008
and the Notice of Non-Compliant Amendment of April 15, 2009

the other hand on the size of the magnetic field required for saturation. A suitable magnetic field may be generated for example by way of a pair of Maxwell coils 10.